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NTE116

General Purpose Silicon Rectifier

DO-41 Type Package

Description:

The NTE116 is a general purpose silicon rectifier in a DO-41 case designed for low power and switching applications.

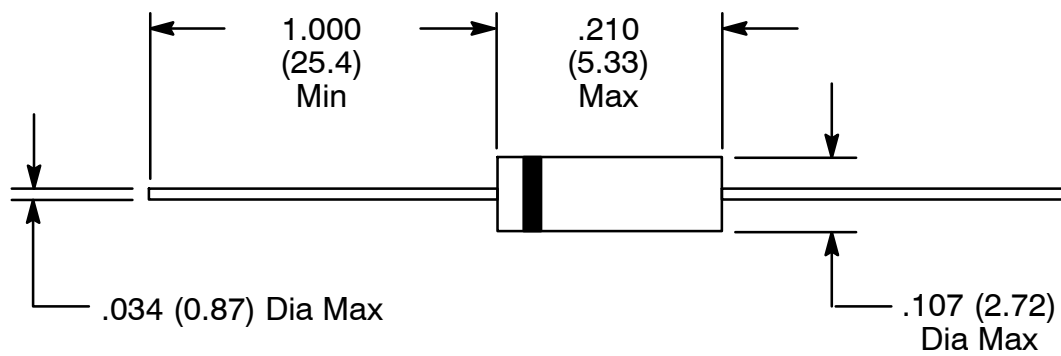
Absolute Maximum Ratings:

Peak Repetitive Reverse Voltage, V_{RRM} 600V
Working Peak Reverse Voltage, V_{RWM} 600V
DC Blocking Voltage, V_R 600V
Non-Repetitive Peak Reverse Voltage (Halfwave, Single Phase, 60Hz), V_{RSM} 720V
RMS Reverse Voltage, $V_{R(RMS)}$ 420V
Average Rectified Forward Current, I_O
(Single Phase, Resistive Load, 60Hz, $T_A = +75^\circ\text{C}$) 1A
Non-Repetitive Peak Surge Current, I_{FSM}
(Surge applied at rated load conditions for 1 cycle) 30A
Operating Junction Temperature Range, T_J -65° to $+175^\circ\text{C}$
Storage Temperature Range, T_{stg} -65° to $+175^\circ\text{C}$
Maximum Lead Temperature, T_L
(During Soldering, 3/8" from case for 10sec at 5lbs tension) $+350^\circ\text{C}$

Electrical Characteristics:

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Maximum Instantaneous Forward Voltage Drop	v_F	$i_F = 1\text{A}$, $T_J = +25^\circ\text{C}$	–	0.93	1.1	V
Maximum Full-Cycle Average Forward Voltage Drop	$V_{F(AV)}$	$I_O = 1\text{A}$, $T_L +75^\circ\text{C}$, 1" leads	–	–	0.8	V
Maximum Reverse Current	I_R	$V_{RRM} = 600\text{V}$, $T_J = +25^\circ\text{C}$	–	0.05	10	μA
		$V_{RRM} = 600\text{V}$, $T_J = +100^\circ\text{C}$	–	1.0	50	
Maximum Full-Cycle Average Reverse Current	$I_{R(AV)}$	$I_O = 1\text{A}$, $T_L +75^\circ\text{C}$, 1" leads	–	–	30	μA

Rev. 3-21



Color Band Denotes Cathode